ABOUT THE MAJOR
Our BS in Computer Science program offers students a focused and progressive curriculum that provides the knowledge needed to succeed as software developers in today’s information technology job market.

The program is offered face-to-face at the UWG Carrollton campus and is accredited by the Computing Accreditation Commission of ABET.

ABOUT THIS MAP
This program map is intended ONLY as a guide for students to plan their course of study. It does NOT replace any information in the Undergraduate Catalog, which is the official guide for completing degree requirements. Use this map to help plan and guide your experience at UWG, including academic, co-curricular, and discovery opportunities. Everyone’s experience is different and activities in this map are suggestions. Always consult with your advisors whenever possible for new opportunities and updates.

WHERE CAN YOU GO WITH THIS DEGREE?
- AI Engineer
- Computer Hardware Engineer
- Information Security Analyst
- IT Project Manager
- Mobile App Developer
- Software Developer
- Systems Architect
- UX Designer
- Video Game Developer
- Web Developer

ADD A CERTIFICATE
- Communication in the Workplace
- Data Analytics
- Data Analytics & Evaluation Methods
- Data Science

Visit westga.edu/program-maps for the latest version of this major map.

HONORS COLLEGE
Consider joining if you have an Overall GPA of 3.2 and earned 15 college credit hours!
YEAR 1

TERM 1: FALL

C1: ENGL 1101
English Composition I
3 CREDIT HOURS

M: MATH 1113
Precalculus
4 CREDIT HOURS

I2: XIDS 2002
Recommended First-Year Seminar
2 CREDIT HOURS

P2: POLS 1101
American Government
3 CREDIT HOURS

S2: SOCIAL SCIENCE
3 CREDIT HOURS

MILESTONES:
- COMPLETE ENGL 1101 WITH C OR BETTER.
- COMPLETE MATH 1113 WITH C OR HIGHER.

TERM 2: SPRING

C2: ENGL 1102
English Composition II
3 CREDIT HOURS

T3: MATH 1634
Calculus I
4 CREDIT HOURS

F: CS 1301
Computer Science I
4 CREDIT HOURS

M: MATH 1113
Precalculus
4 CREDIT HOURS

I1: WRITTEN AND ORAL COMMUNICATION
3 CREDIT HOURS

MILESTONES:
- COMPLETE ENGL 1102 WITH C OR BETTER.
- COMPLETE CS 1301 WITH B OR BETTER.
- COMPLETE MATH 1634 WITH C OR BETTER.

15 FALL CREDIT HOURS + 14 SPRING CREDIT HOURS = 29 CREDIT HOURS

YEAR 2

TERM 1: FALL

F: CS 1302
Computer Science II
4 CREDIT HOURS

F: CS 2100
Introduction to Web Development
3 CREDIT HOURS

F: MATH 1401
Elementary Statistics
3 CREDIT HOURS

ENGL 3405
Professional and Technical Writing
3 CREDIT HOURS

A: HUMANITIES
MILESTONE:
- COMPLETE CS 1302 WITH B OR BETTER.

TERM 2: SPRING

CS 3151
Data Structures and Discrete Math I
4 CREDIT HOURS

CS 3270
Intelligent Systems
3 CREDIT HOURS

F: MATH 2853
Elementary Linear Algebra
3 CREDIT HOURS

S1: HIST 1111 OR 1112
World History
3 CREDIT HOURS

ELECTIVE
3 CREDIT HOURS

MILESTONE:
- COMPLETE MATH 2853 C OR BETTER.

16 FALL CREDIT HOURS + 16 SPRING CREDIT HOURS = 32 CREDIT HOURS

CRUSH YOUR COURSEWORK

TERM 1: FALL

- Complete CS 1301 with an A or B: this is the prerequisite to all your CS courses.
- Complete MATH 1113 or MATH 1112 (with a C or better) to stay on top of your Mathematics requirements.
- Complete ENGL 1101 & 1102.
- MILESTONES:
  - COMPLETE MATH 1634 WITH C OR BETTER.
  - COMPLETE ENGL 1102 WITH C OR BETTER.

TERM 2: SPRING

- Join ACM and/or ACM-W for networking and connection with your computing peers.
- Join another student organization to have a balanced life outside of computing.
- Talk with your advisor (or other computing faculty) about what you love about computing.

BAFFLED BY YOUR PROGRAMS AND ADMISSION REQUIREMENTS?

- Visit the graduate school to find out about graduate programs and admission requirements.
- Visit Wolves Vote to learn about the voting process and registration.
- Complete an internship in your field.
- Ask your department about networking opportunities with alumni.

TAKE CARE OF YOURSELF

TERM 1: FALL

- Visit the IMC Wellness Hub to find all the resources available to you!
- Visit Health Services.
- Get fit: Visit Office to see all your options.
- Visit the Center for Economic Education and Financial Literacy.
- Visit the 24/7 Mitchell Clifton Computing Center to work on class projects and associated lab sections.

TERM 2: SPRING

- Consider whether counseling is right for you: take a mental health screening.
- Consider whether counseling is right for you.
- Work on a student project in the Innovation Lab.
- Socialize with friends.
- Take a fitness class, climb the rock wall, or join an intramural team.
- Consider participating in a career or part-time job.
- Maintain a school/life balance, e.g., eat out with friends and family, attend a concert or play, make time for your hobbies.

TAKE YOUR CAREER OFF-CAMPUS

TERM 1: FALL

- Consider volunteering for a campaign or political registration.
- Complete ENGL 1101 & 1102.
- Complete MATH 1113 or MATH 1112 (with a C or better) to stay on top of your Mathematics requirements.
- Complete MATH 1634 with C or better.

TERM 2: SPRING

- Draft your resume and attend a resume blitz.
- Ask a mentor to review your resume.
- Draft your personal statement.
- Visit the graduate school to find out about graduate programs and admission requirements.

PAVE YOUR PATH

TERM 1: FALL

- Consider applying for an on-campus job.
- Create your profile on Handshake.
- Visit the Center for Economic Education and Financial Literacy.
- Complete a self-assessment to see what careers and majors are right for you.
- Take your two science lab courses as soon as possible (Biol 1107, Biol 1108, Chem 1211, Chem 1212, Phys 2221 and/or Phys 2222, plus the associated lab sections).

TERM 2: SPRING

- Complete MATH 2853 C or better.
- In a student organization? Suggest you all complete a implicit bias workshop.
- Take a fitness class, climb the rock wall, or join an intramural team.
- Consider participating in a career or part-time job.
- Draft your resume and attend a resume blitz.
- Ask a mentor to review your resume.
- Draft your personal statement.
- Consider participating in a career or part-time job.

TAKE YOUR CAREER OFF-CAMPUS

TERM 1: FALL

- Complete MATH 1634 with C or better.
- Complete ENGL 1101 with C or better.
- Complete MATH 1113 with C or higher.
- Complete MATH 1634 with C or better.

TERM 2: SPRING

- Complete ENGL 1102 with C or better.
- Complete CS 1301 with B or better.
**TERM 1: FALL**

- **CS 3201**
  - Program Construction I
  - 3 credit hours

- **CS 3211**
  - Software Engineering I
  - 3 credit hours

- **CS 3152**
  - Data Structures and Discrete Math II
  - 4 credit hours

- **MATH 3003**
  - Transition to Advanced Mathematics
  - 3 credit hours

**MILESTONE:**
- COMPLETE T1; OPTIONS FOUND BELOW.

**TERM 2: SPRING**

- **CS 3202**
  - Program Construction II
  - 3 credit hours

- **CS 3212**
  - Software Engineering II
  - 3 credit hours

- **T2: SCIENCE + LAB**
  - 4 credit hours

- **CS/COMP ELECTIVE**
  - 3 credit hours

**MILESTONE:**
- COMPLETE T2; OPTIONS FOUND BELOW.

**CRUSH YOUR COURSEWORK**
- Take a MATH course every semester until you complete your MATH requirements. Get those out of the way early! (MATH 1624, MATH 1405, MATH 2803, and MATH 3003).
- Take your two science lab courses as soon as possible (Biol 1107, Biol 1108, Chem 1211, Chem 1212, Phys 2221 and/or Phys 2222, plus the associated lab sections).

**FIND YOUR PLACE**
- Regularly hang out in the 24/7 Mitchell Clayton Computing Center to work on class projects and socialize with friends.
- Apply to be a lab assistant in the csX Tutoring lab.
- Work on a side project in the Innovation Lab.
- Maintain a healthy balance, e.g., not eat out with friends and family, attend a concert or play, make time for your hobbies.

**BROADEN YOUR PERSPECTIVES**
- Complete an internship in your field.
- Consider a summer or part-time job.
- Ask your department about networking opportunities with alumni.

**CONNECT OFF-CAMPUS**
- Take a fitness class, climb the rock wall, or join an intramural team.
- Consider whether counseling is right for you: take a mental health screening.

**TAKE CARE OF YOURSELF**
- Draft your resume and attend a resume build.
- Learn about how to network on social media and update your Handshake profile.
- Draft your personal statement.
- Visit the graduate school to find out about graduate programs and admission requirements.

**PAVE YOUR PATH**
- Complete your required internship experience (CS 4986).
- Complete your required Computing Capstone project course (CS 4982).

**TERM 2: SPRING**

- **CS 4225**
  - Distributed and Cloud Computing
  - 3 credit hours

- **CS 4982**
  - Computing Capstone
  - 3 credit hours

**A: HUMANITIES**

- **CS/COMP ELECTIVE**
  - 3 credit hours

**ELECTIVE**
- 2 credit hours

**TERM 1: FALL**

- **CS 3110**
  - System Architecture
  - 3 credit hours

- **CS 3230**
  - Information Management
  - 3 credit hours

- **CS 4986**
  - Computing Internship
  - 3 credit hours

**P1: HIST 2111 OR 2112**

- **US History**
  - 3 credit hours

- **CS 3280**
  - Systems Programming
  - 3 credit hours

**TERM 2: SPRING**

- **CS 4225**
  - Distributed and Cloud Computing
  - 3 credit hours

- **CS 4982**
  - Computing Capstone
  - 3 credit hours

**A: HUMANITIES**

- **CS/COMP ELECTIVE**
  - 3 credit hours

**ELECTIVE**
- 2 credit hours

**TERM 4**

- **CS 3110**
  - System Architecture
  - 3 credit hours

- **CS 3230**
  - Information Management
  - 3 credit hours

- **CS 4986**
  - Computing Internship
  - 3 credit hours

**P1: HIST 2111 OR 2112**

- **US History**
  - 3 credit hours

- **CS 3280**
  - Systems Programming
  - 3 credit hours

**CRUSH YOUR COURSEWORK**
- Complete your required internship experience (CS 4986).
- Complete your required Computing Capstone project course (CS 4982).

**FIND YOUR PLACE**
- Assess your cultural competency.
- Consider working abroad and research visa regulations.
- Explore practices of creating more inclusive careers.

**BROADEN YOUR PERSPECTIVES**
- Ask for advice from professionals in your field of interest.
- Explore career shadowing opportunities.

**CONNECT OFF-CAMPUS**
- Explore a farmer’s market for fresh produce.
- Develop a post-graduation exercise plan.
- Explore your loan repayment options and complete your exit counseling.

**TAKE CARE OF YOURSELF**
- Request references from professors and supervisors.
- Draft your resume cover letter and personal statement and revise it with career services.
- Attend business fairs and career fairs at UW-G and across the state.
- Attend an interview workshop.
- Apply for graduate programs.